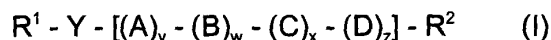


Claims

1. A liquid washing, cleaning, disinfecting or bleaching composition comprising amphiphilic copolymers which include structural units derived from
 - a) acryloyldimethyltauric acid in free form, partially neutralized form or completely neutralized form with monovalent or divalent inorganic or organic cations, and
 - b) at least one hydrophobic comonomer based on ethylenically unsaturated polyalkylene alkoxylates, and optionally
 - c) further at least monovinylally unsaturated comonomers different from a) and b).
2. The liquid washing, cleaning, disinfecting or bleaching composition as claimed in claim 1, in which the copolymers have a molecular weight M_w of from 10^3 g/mol to 10^9 g/mol.
3. The liquid washing, cleaning, disinfecting or bleaching composition as claimed in claim 1 and/or 2, in which the acryloyldimethyltaurates (structural unit a) are Li^+ , Na^+ , K^+ , Mg^{++} , Ca^{++} , Al^{+++} , NH_4^+ , monoalkylammonium, dialkylammonium, trialkylammonium and/or tetraalkylammonium salts, where the alkyl substituents of the amines are, independently of one another, $(\text{C}_1\text{-C}_{22})$ -alkyl radicals, which may optionally be occupied by up to 3 $(\text{C}_2\text{-C}_{10})$ -hydroxyalkyl groups.
4. The liquid washing, cleaning, disinfecting or bleaching composition as claimed in one or more of claims 1 to 3, in which, based on the total mass of the copolymers, the content of acryloyldimethyltauric acid or acryloyldimethyltaurates is 0.1 to 99.9% by weight.

5. The liquid washing, cleaning, disinfecting or bleaching composition as claimed in one or more of claims 1 to 4, in which the macromonomers b) used are compounds according to formula (I)



in which

R^1 is a function capable of polymerization from the group of vinylically unsaturated compounds which is suitable for building up polymeric structures in a free-radical manner,

R^2 is a linear or branched aliphatic, olefinic, cycloaliphatic, arylaliphatic or aromatic (C_1 - C_{50})-hydrocarbon radical, OH, $-NH_2$, $-N(CH_3)_2$ or is the structural unit $[-Y-R^1]$,

Y is $-O-$, $-C(O)-$, $-C(O)-O-$, $-S-$, $-O-CH_2-CH(O-)-CH_2OH$, $-O-CH_2-CH(OH)-CH_2O-$, $-O-SO_2-O-$, $-O-SO-O-$, $-PH-$, $-P(CH_3)-$, $-PO_3-$, $-NH-$ and $-N(CH_3)-$,

A, B, C and D are derived from acrylamide, methacrylamide, ethylene oxide, propylene oxide, AMPS, acrylic acid, methacrylic acid, methyl methacrylate, acrylonitrile, maleic acid, vinyl acetate, styrene, 1,3-butadiene, isoprene, isobutene, diethylacrylamide and diisopropylacrylamide,

v, w, x and z, independently of one another are 0 to 500, where the sum of the four coefficients must on average be ≥ 1 .

6. The liquid washing, cleaning, disinfecting or bleaching composition as claimed in one or more of claims 1 to 5, in which the molecular weight of the macromonomers b) is 200 g/mol to 10^6 g/mol.

7. The liquid washing, cleaning, disinfecting and bleaching composition as

claimed in one or more of claims 1 to 6, in which the comonomers c) used are olefinically unsaturated monomers chosen from N-vinylformamide (VIFA), N-vinylmethylformamide, N-vinylmethylacetamide (VIMA) and N-vinylacetamide; cyclic N-vinylamides (N-vinylactams) with a ring size from 3 to 9, preferably N-vinylpyrrolidone (NVP) and N-vinylcaprolactam; amides of acrylic acid and methacrylic acid, preferably acrylamide, methacrylamide, N,N-dimethylacrylamide, N,N-diethylacrylamide and N,N-diisopropylacrylamide; alkoxyated acrylamides and methacrylamides, preferably hydroxyethyl methacrylate, hydroxymethylmethacrylamide, hydroxyethylmethacrylamide, hydroxypropylmethacrylamide and succinic mono-[2-(methacryloyloxy)ethyl ester]; N,N-dimethylaminomethacrylate; diethylaminomethyl methacrylate; acryl- and methacrylamidoglycolic acid; 2- and 4-vinylpyridine; vinyl acetate; glycidyl methacrylate; styrene; acrylonitrile; stearyl acrylate; lauryl methacrylate.